



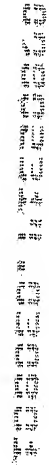
[illegible]

FIG. 3

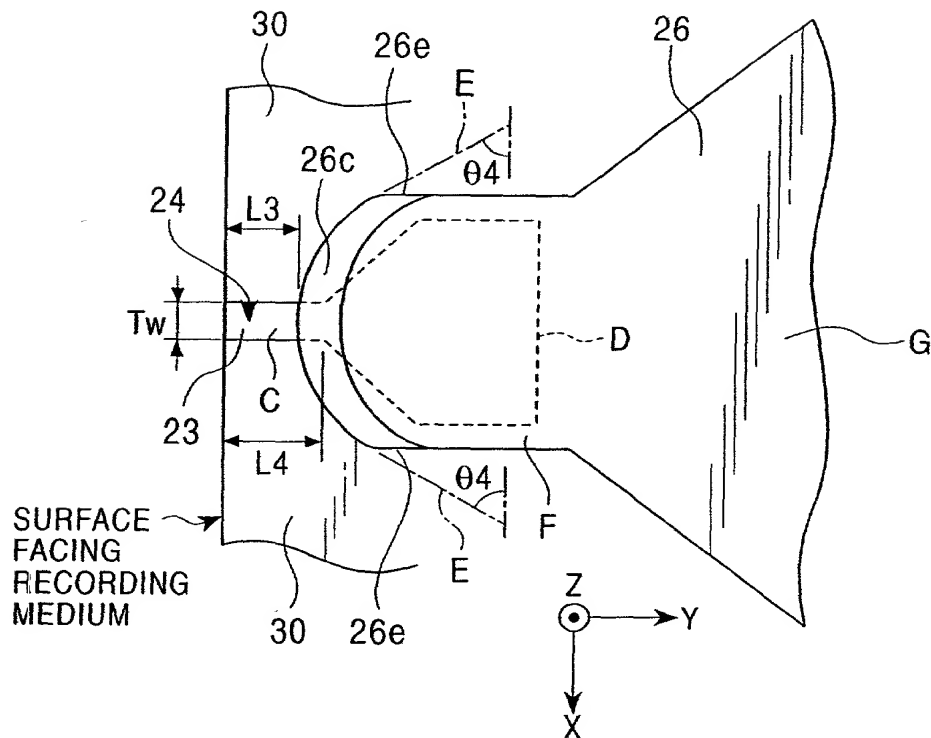
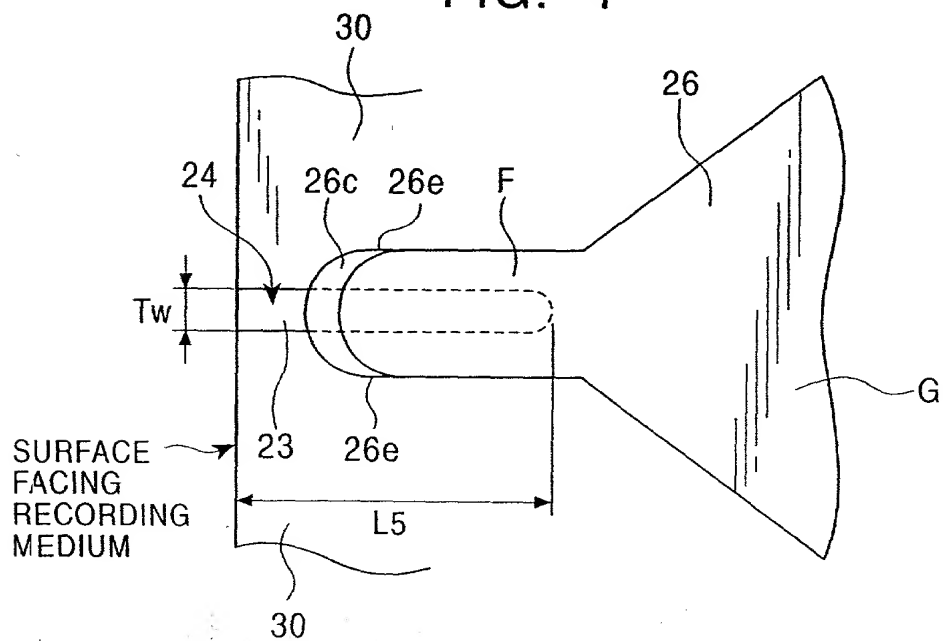


FIG. 4



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FIG. 5

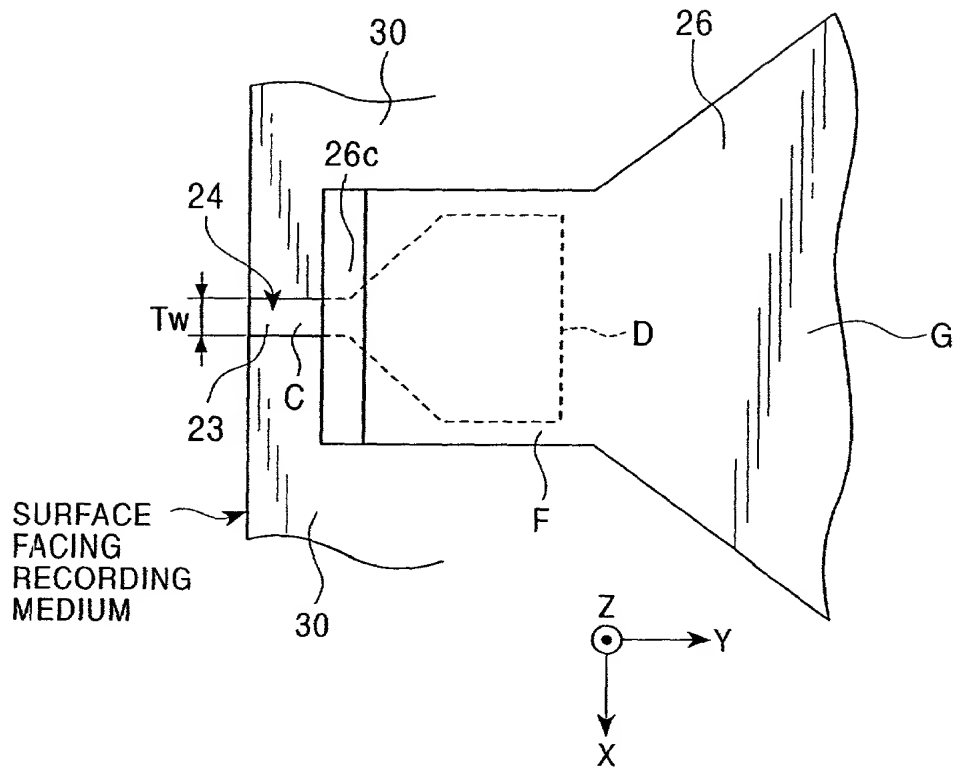
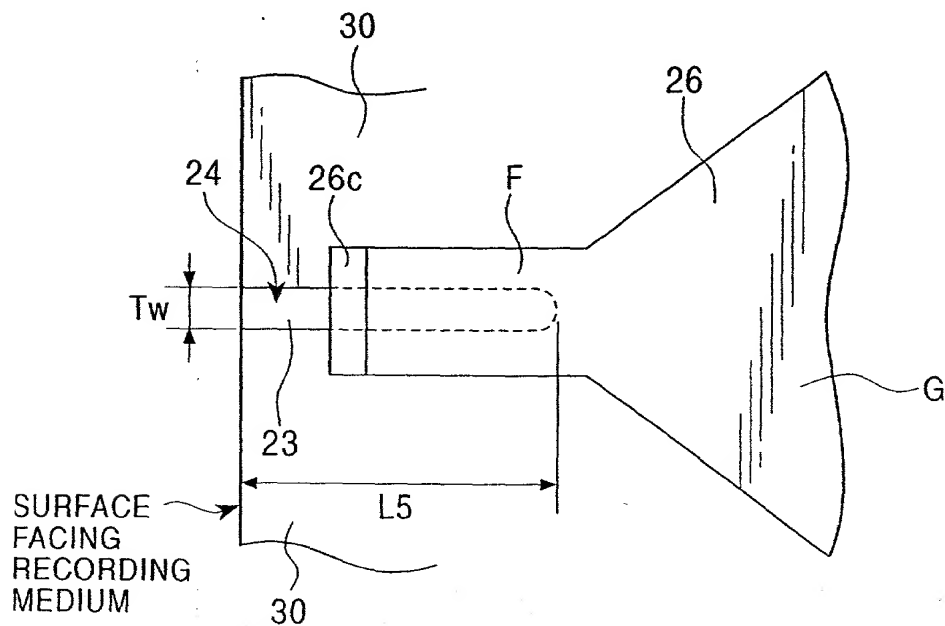
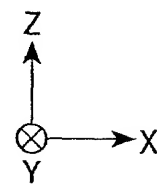
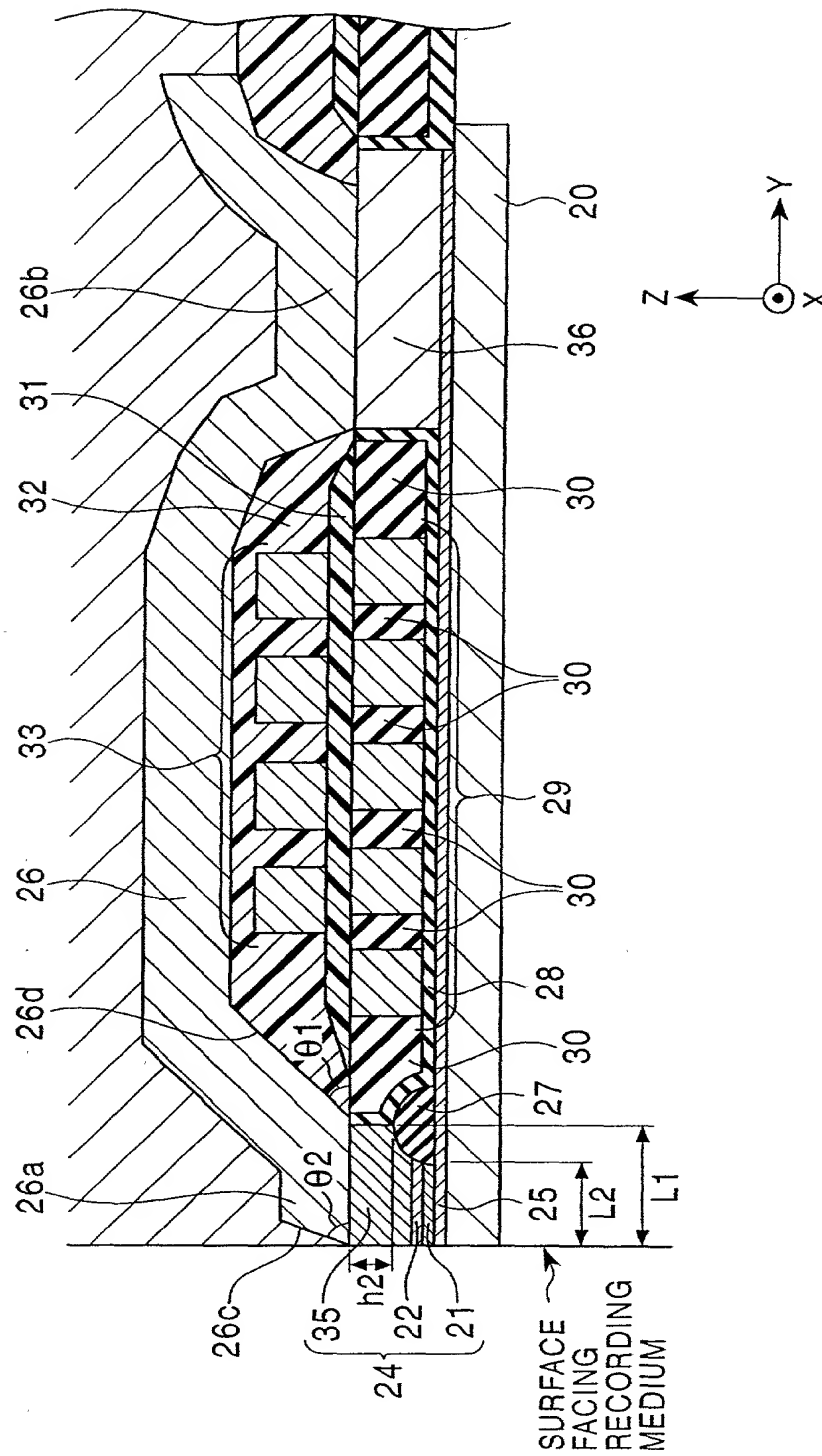


FIG. 6





85  
5  
11

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FIG. 9

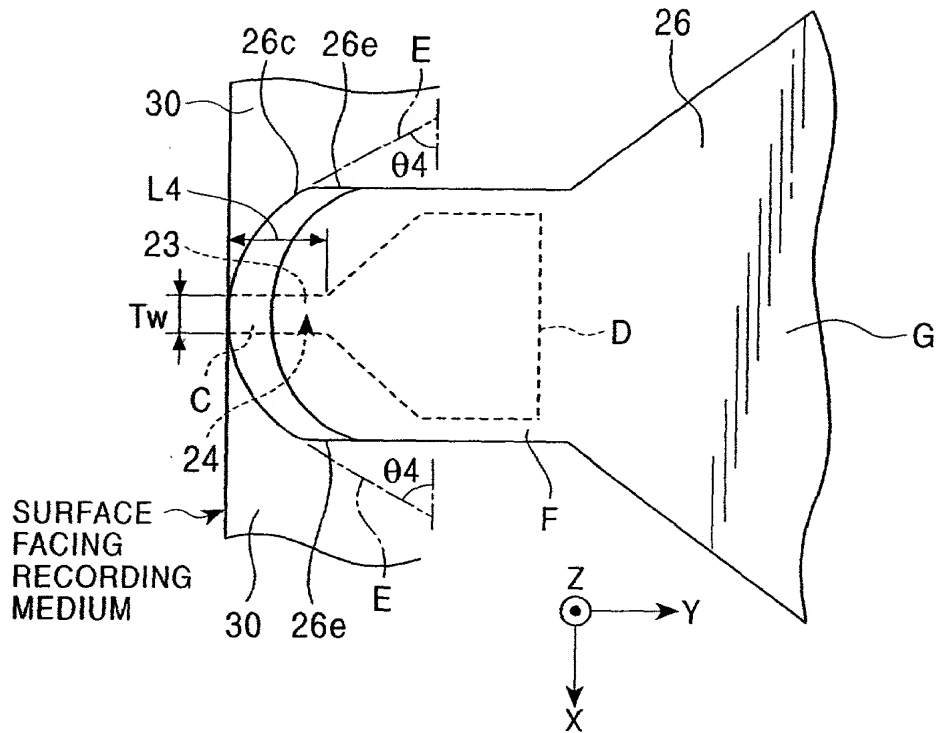


FIG. 10

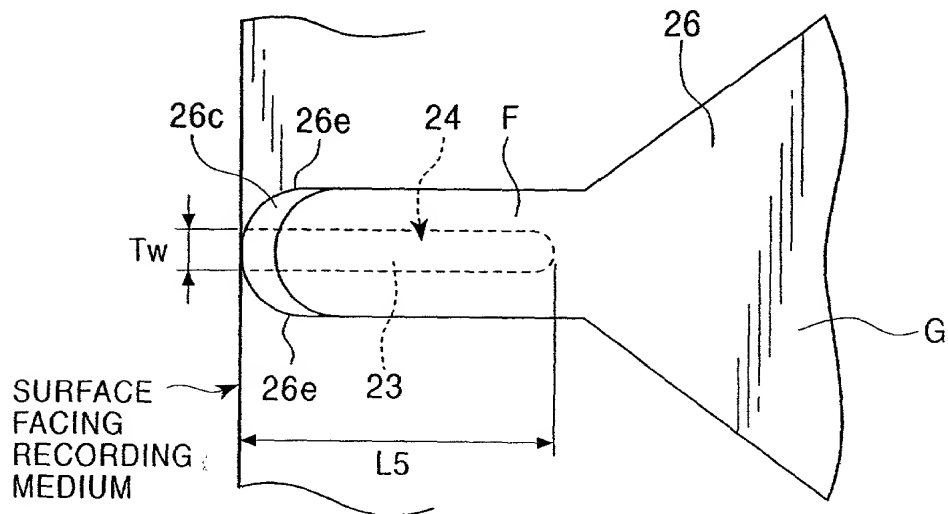


FIG. 11

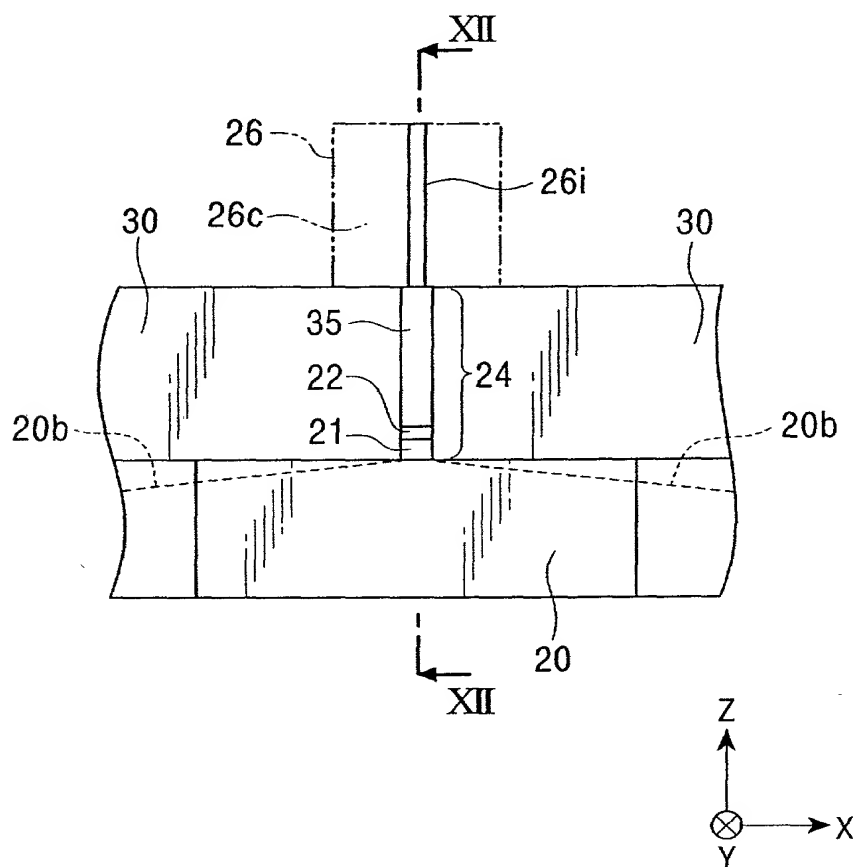




FIG. 12

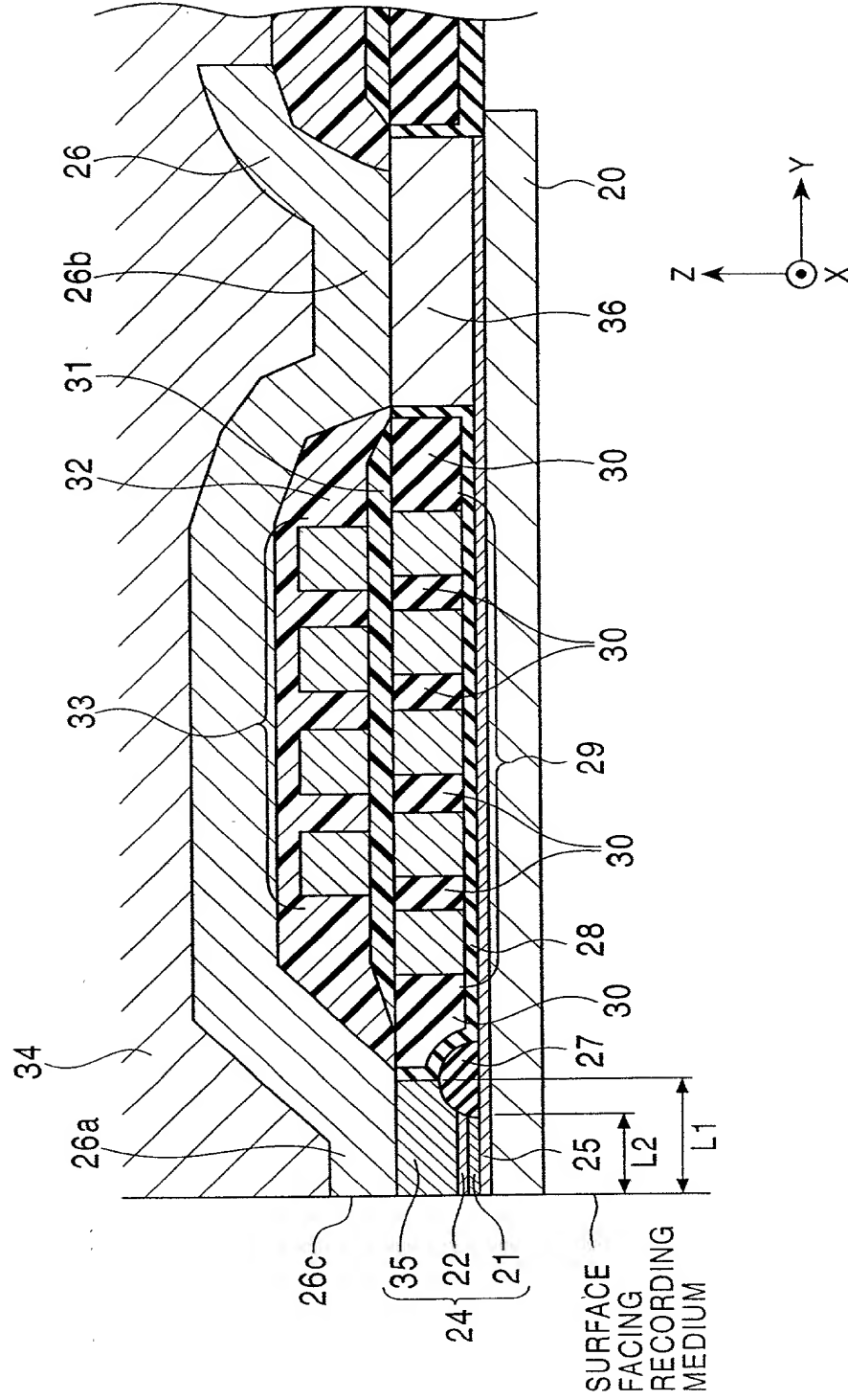


FIG. 13

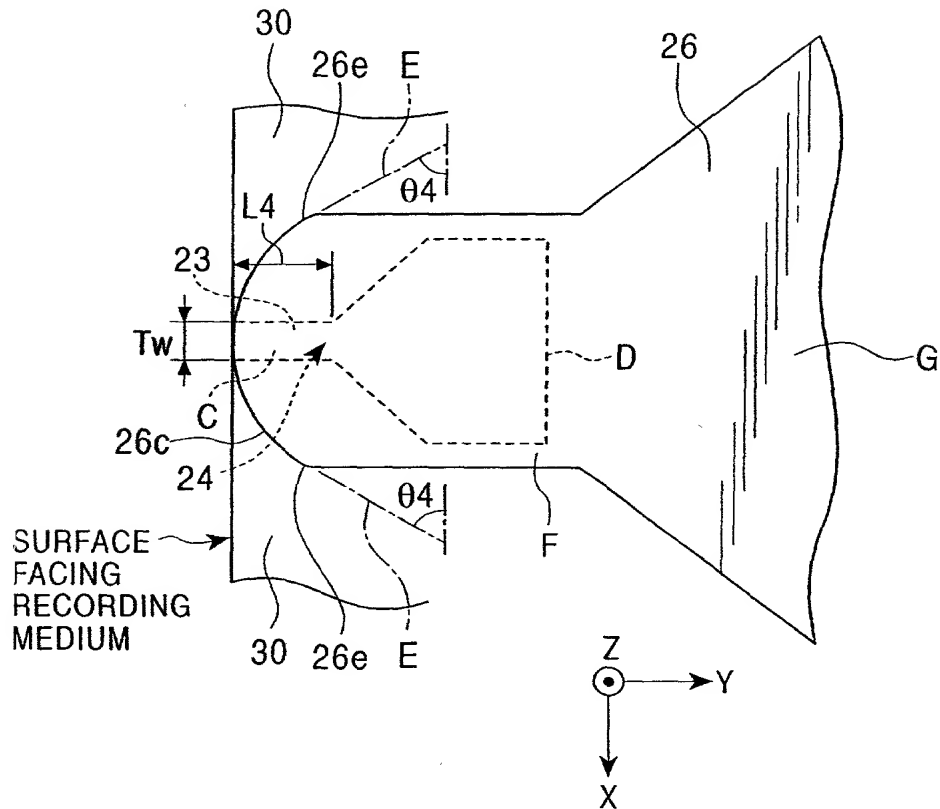


FIG. 14

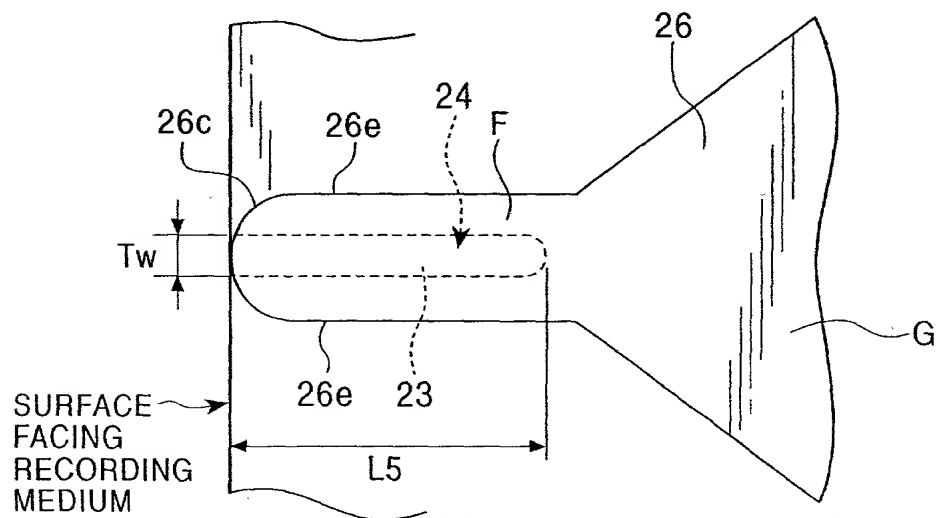


FIG. 15A

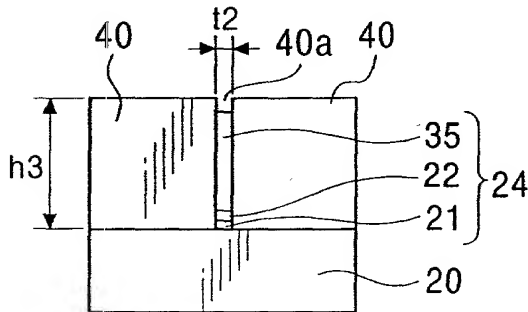


FIG. 15B

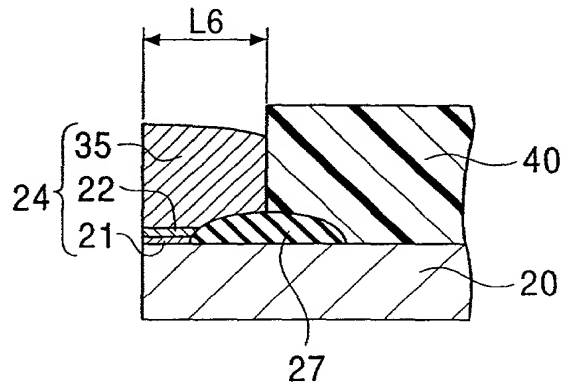


FIG. 16A

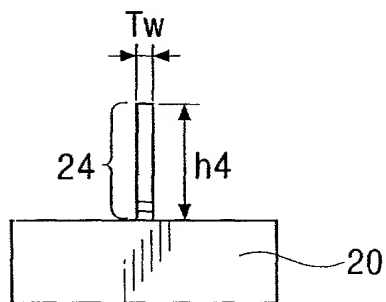


FIG. 16B

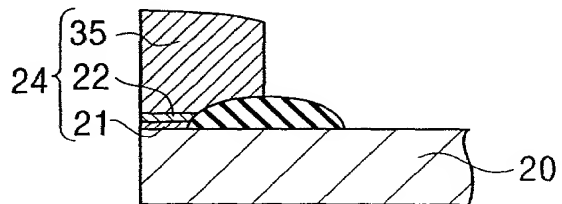


FIG. 17A

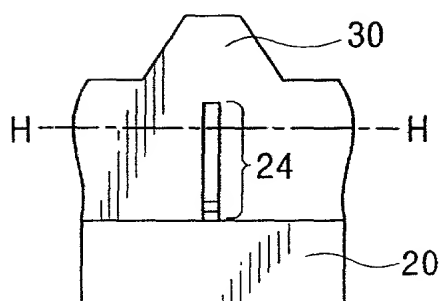


FIG. 17B

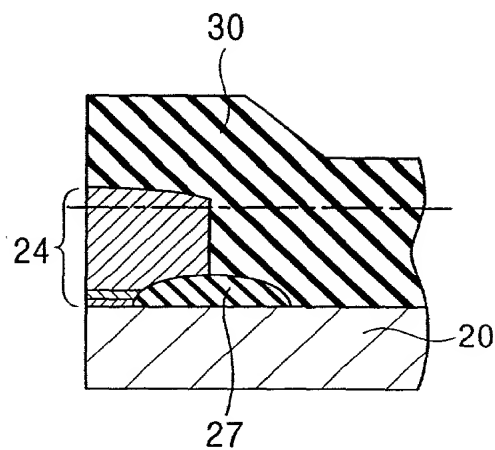


FIG. 18A

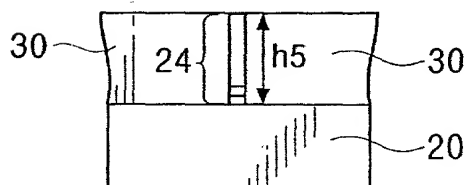


FIG. 18B

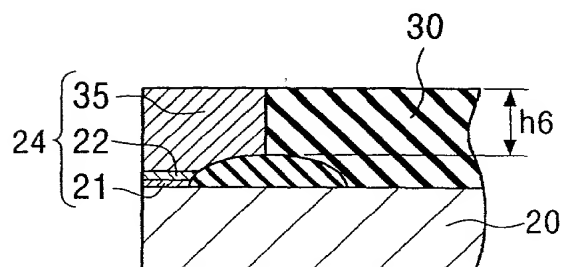
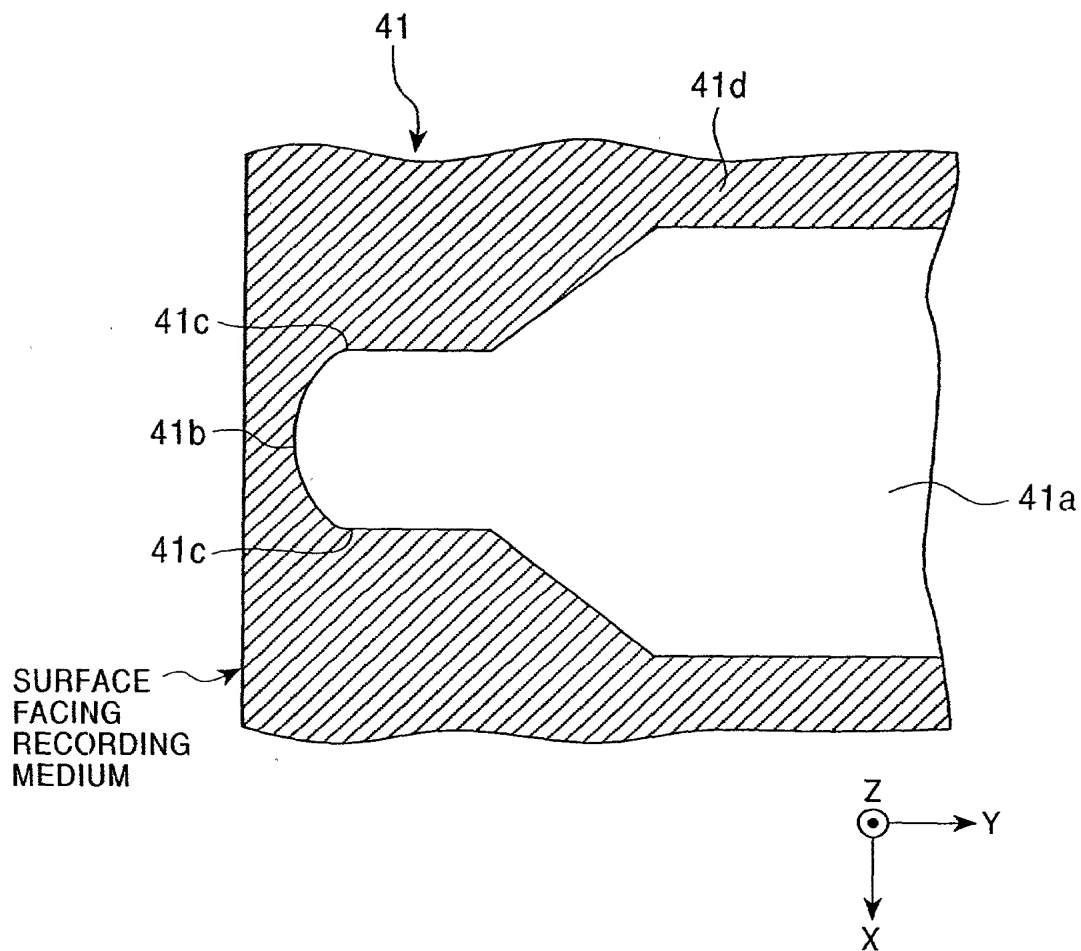


FIG. 19



A cross-sectional view of a magnetic recording head assembly. The assembly includes a substrate 20, a coil 30, and a pole piece 35. A gap 41a is formed between the pole piece 35 and the substrate 20. The gap 41a is defined by a gap wall 41d1 and a gap wall 41d2. A gap surface 41d is formed by the gap wall 41d1 and the gap wall 41d2. A surface facing recording medium is indicated by an arrow pointing to the left side of the assembly. A coordinate system is shown with the Z-axis pointing up, the X-axis pointing out of the page, and the Y-axis pointing to the right.

FIG. 22

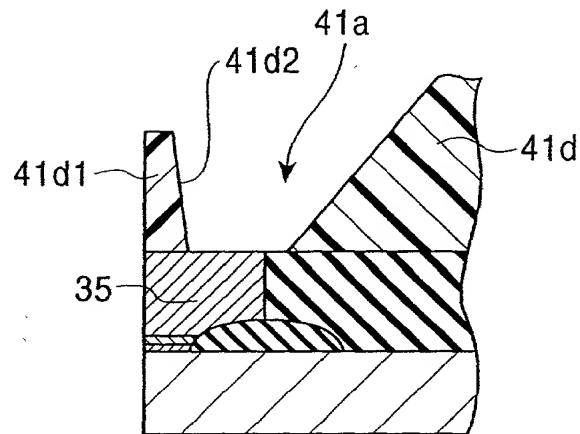
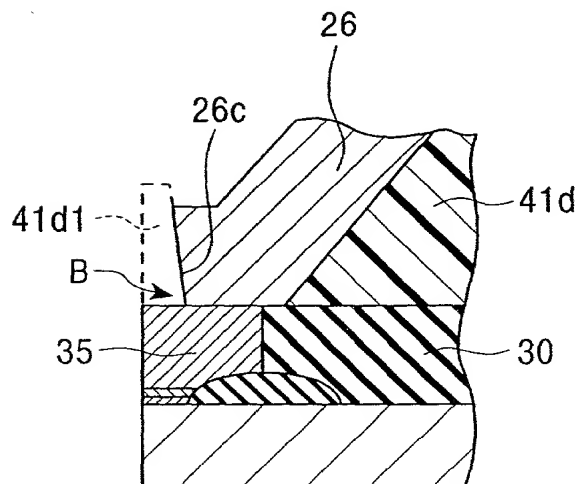


FIG. 23



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FIG. 24  
PRIOR ART

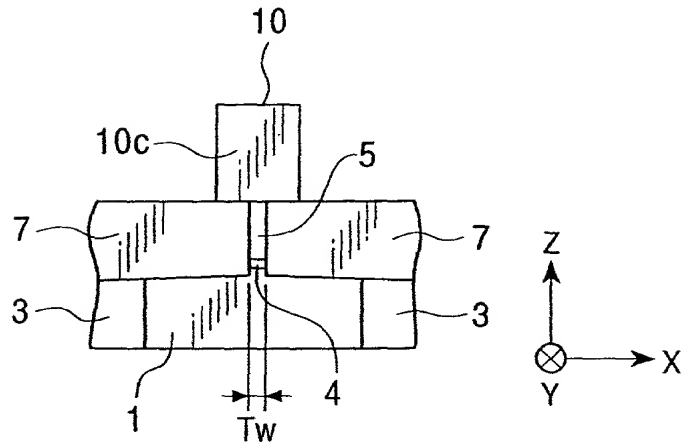
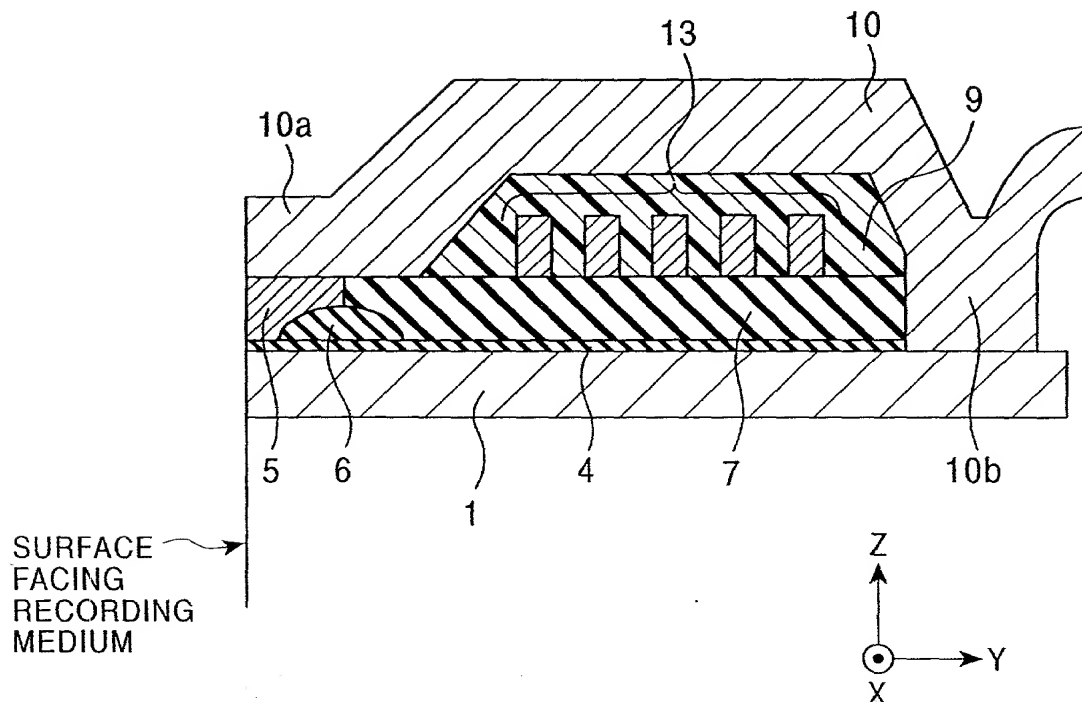


FIG. 25  
PRIOR ART





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FIG. 26  
PRIOR ART

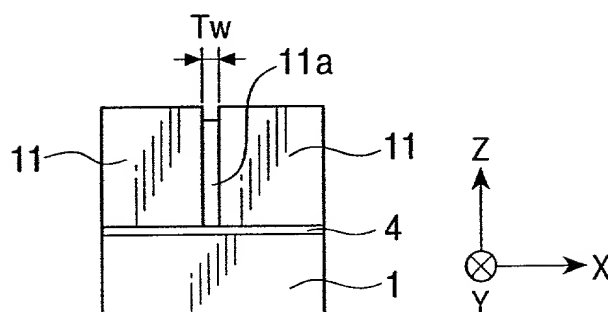
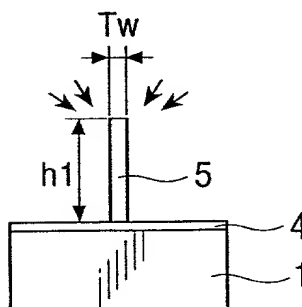


FIG. 27  
PRIOR ART



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FIG. 28  
PRIOR ART

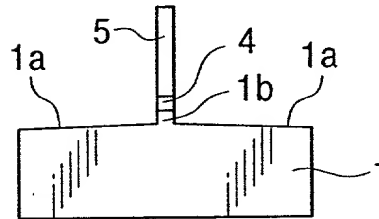


FIG. 29  
PRIOR ART

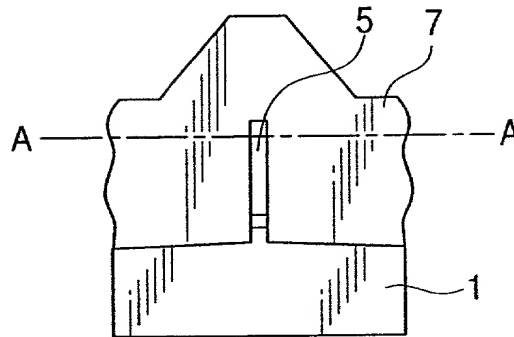


FIG. 30  
PRIOR ART

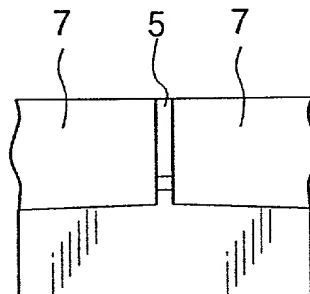


FIG. 31  
PRIOR ART

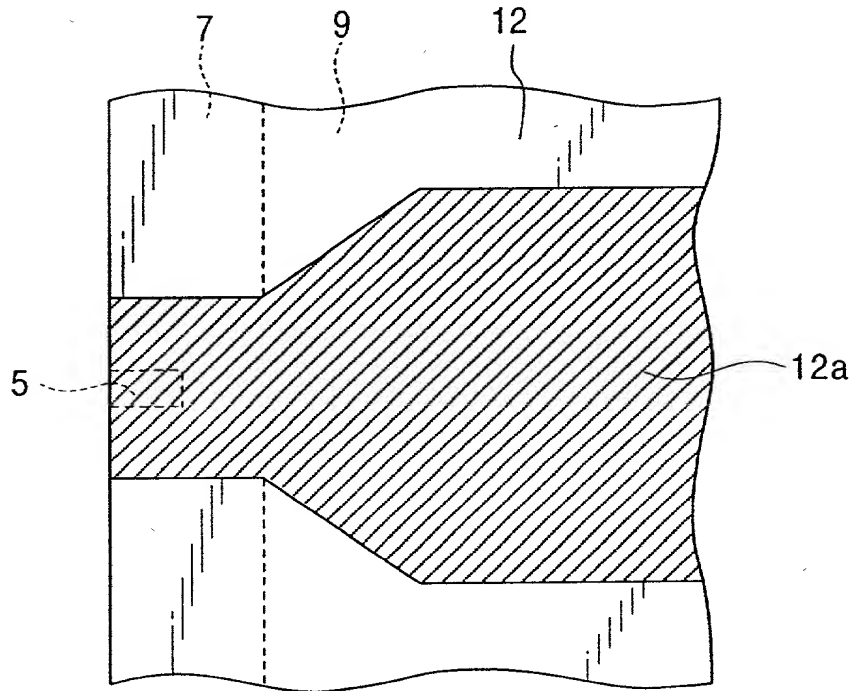


FIG. 32  
PRIOR ART

